AMENDMENTS TO THE CLAIMS

This listing of the claims will replace all prior versions, and listings, of claims in this application

Listing of Claims:

- 1. (Currently Amended) An isolated nucleic acid molecule comprising a nucleotide sequence encoding the polypeptide of SEQ ID NO:2, or which is complementary thereto over its the full length of SEQ ID NO:2.
- 2. (Currently Amended) The nucleic acid molecule of claim 1, which comprises the nucleotide sequence shown in SEQ ID NO:1, or which is complementary thereto over its the full length of SEQ ID NO:1.
 - 3.-5. (Canceled)
- 6. (Previously Presented) An isolated nucleic acid molecule, which has at least 90% nucleotide identity with SEQ ID NO:1 over its full length, and which encodes a polypeptide that binds a consensus T-box site in DNA and induces IFN-γ production in CD4+ cells.
 - 7. (Canceled)
- 8. (Currently Amended) A vector comprising the nucleic acid molecule of <u>any one of claims 6, 51, 55, and 58 elaim 1.</u>
 - 9. (Previously Presented) The vector of claim 8, which is an expression vector.
 - 10. (Previously Presented) A host cell containing the vector of claim 9.
- 11. (Previously Presented) A method for producing a T-bet protein comprising culturing the host cell of claim 10 in a suitable medium until a T-bet protein is produced.

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12. (Previously Presented) The method of claim 11, further comprising isolating the T-bet protein from the medium or the host cell.

13.-49. (Canceled)

- 50. (Currently Amended) The nucleic acid molecule of claim 6, wherein the polypeptide has at least one activity selected from the group consisting of: inducing IFN γ production in CD4+ cells, inducing Th1-associated cytokine production, inhibiting production of IL-2, and inducing the differentiation of Thp cells and Th2 cells into Th1 cells.
- 51. (Currently Amended) An isolated nucleic acid molecule which hybridizes to the complement of the nucleic acid molecule set forth in SEQ ID NO:1 over the full length of the isolated nucleic acid molecule SEQ ID NO:1 in 6X SSC at 45°C, followed by one or more washes in 0.2X SSC, 0.1% SDS at 65°C under stringent conditions, wherein said nucleic acid molecule encodes a polypeptide that binds a consensus T-box site in DNA and induces IFN-γ production in CD4+ cells.

52. (Canceled)

- 53. (Previously Presented) An isolated nucleic acid molecule which encodes a polypeptide comprising an amino acid sequence at least 95% identical to the amino acid sequence of SEQ ID NO:2, wherein said nucleic acid molecule encodes a polypeptide that binds to a consensus T-box site in DNA and induces IFN-γ production in CD4+ cells.
- 54. (Previously Presented) The isolated nucleic acid molecule of claim 1, further comprising a nucleotide sequence encoding a heterologous polypeptide.
- 55. (Currently Amended) An isolated nucleic acid molecule consisting of at least 700 contiguous nucleotides of the nucleotide sequence of SEQ ID NO:1 which sequence comprises a T-box domain, or a nucleic acid molecule consisting of a nucleotide sequence complementary to the at least 700 contiguous nucleotides of SEQ ID NO:1 thereto over the full length of the isolated nucleic acid molecule.

- 56. (Canceled)
- 57. (Previously Presented) An isolated nucleic acid molecule comprising the nucleotide sequence shown in SEQ ID NO:1, wherein the nucleic acid molecule is labeled with a detectable substance.
- 58. (Currently Amended) An isolated nucleic acid molecule comprising at least 700 contiguous nucleotides of SEQ ID NO:1 which are complementary to at least 700 nucleotides of SEQ ID NO:1 which sequence comprises a T-box domain, or a nucleic acid molecule comprising a nucleotide sequence complementary to the at least 700 contiguous nucleotides of SEQ ID NO:1.
 - 59. (Canceled)
 - 60. (Canceled)
- 61. (Currently Amended) The expression vector of claim 9, comprising a constitutive promoter promoter.
- 62. (Currently Amended) The expression vector of claim 9, comprising an inducible promoter promoter.
- 63. (Previously Presented) The expression vector of claim 9, comprising a tissue-specific regulator element.
 - 64. (Canceled)
- 65. (Previously Presented) The nucleic acid molecule of claim 6, wherein the identity is determined by the BLAST program using the default Blastn matrix.
 - 66.-83. (Canceled)

- 84. (Currently Amended) The nucleic acid molecule of claim 53, wherein the polypeptide has at least one activity selected from the group consisting of: inducing IFN γ production in CD4+ cells, inducing Th1 associated cytokine production, inhibiting production of IL-2, and inducing the differentiation of Thp cells and Th2 cells into Th1 cells.
 - 85. (Canceled)
 - 86. (Canceled)
- 87. (Currently Amended; Withdrawn) An isolated nucleic acid molecule comprising a nucleotide sequence encoding the polypeptide of SEQ ID NO:4, or which is complementary thereto over the its full length of SEQ ID NO:4.
- 88. (Currently Amended; Withdrawn) The nucleic acid molecule of claim 87 elaim 1, which comprises the nucleotide sequence shown in SEQ ID NO:3, or which is complementary thereto over the its full length of SEQ ID NO:3.
 - 89. (Canceled)
- 90. (Withdrawn) An isolated nucleic acid molecule, which has at least 90% nucleotide identity with SEQ ID NO:3 over its full length, and which encodes a polypeptide that binds a consensus T-box site in DNA and induces IFN-γ production in CD4+ cells.
- 91. (Currently Amended; Withdrawn) An isolated nucleic acid molecule which hybridizes to the complement of the nucleic acid molecule set forth in SEQ ID NO:3 over the full length of SEQ ID NO:3 the nucleic acid molecule in 6X SSC at 45°C, followed by one or more washes in 0.2X SSC, 0.1% SDS at 65°C under stringent conditions, wherein said nucleic acid molecule encodes a polypeptide that binds a consensus T-box site in DNA and induces IFN- production in CD4+ cells.
- 92. (Withdrawn) An isolated nucleic acid molecule which encodes a polypeptide comprising an amino acid sequence at least 95% identical to the amino acid sequence of SEQ ID

NO:4, wherein said nucleic acid molecule encodes a polypeptide that binds to a consensus T-box site in DNA and induces IFN-γ production in CD4+ cells.

- 93. (Currently Amended; Withdrawn) An isolated nucleic acid molecule consisting of at least 600 500 contiguous nucleotides of the nucleotide sequence of SEQ ID NO:3 which sequence comprises a T-box domain, or a nucleic acid molecule consisting of a nucleotide sequence complementary to the at least 600 contiguous nucleotides of SEQ ID NO:3 complement thereof thereof over the full length of the isolated nucleic acid molecule.
- 94. (Currently Amended; Withdrawn) An isolated nucleic acid molecule comprising at least 600 500 contiguous nucleotides of SEQ ID NO:3 which sequence comprises a T-box domain, or a nucleic acid molecule comprising a nucleotide sequence which are complementary to the at least 600 500 contiguous nucleotides of SEQ ID NO:3.
- 95. (Currently Amended; Withdrawn) A vector comprising the nucleic acid molecule of any one of claims 90, 91, 93, and 94 claim 87.
 - 96. (Withdrawn) The vector of claim 95, which is an expression vector.
 - 97. (Withdrawn) A host cell containing the vector of claim 96.
- 98. (Withdrawn) A method for producing a T-bet protein comprising culturing the host cell of claim 97 in a suitable medium until a T-bet protein is produced.
- 99. (Withdrawn) The method of claim 98, further comprising isolating the T-bet protein from the medium or the host cell.
- 100. (Currently Amended; Withdrawn) The nucleic acid molecule of <u>claim 90</u> elaim 87, wherein the polypeptide has at least one activity selected from the group consisting of: inducing IFN γ production in CD4+ cells, inducing Th1 associated cytokine production, inhibiting production of IL-2, and inducing the differentiation of Thp cells and Th2 cells into Th1 cells.

- 101. (Withdrawn) The isolated nucleic acid molecule of claim 87, further comprising a nucleotide sequence encoding a heterologous polypeptide.
- 102. (Withdrawn) An isolated nucleic acid molecule comprising the nucleotide sequence shown in SEQ ID NO:3, wherein the nucleic acid molecule is labeled with a detectable substance.
- 103. (Currently Amended; Withdrawn) The expression vector of claim 96, comprising a constitutive <u>promoter promoter</u>.
- 104. (Currently Amended; Withdrawn) The expression vector of claim 96, comprising an inducible promoter promoter.
- 105. (Withdrawn) The expression vector of claim 96, comprising a tissue-specific regulator element.

106.-113. (Canceled)